

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-8 (canceled).

Claim 9 (Currently Amended): A wavelength control device for a laser device, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, ~~capable of~~ for moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller for controlling driving of the piezoelectric element unit to move the optical component to set a center wavelength of the laser light at a target wavelength, and controlling subsequent driving of the piezoelectric element unit or the pulse motor unit to maintain the center wavelength at the target wavelength.

Claim 10 (Currently Amended): A wavelength control device for a laser device, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, ~~capable of~~ for moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller for controlling driving of the piezoelectric element unit to move the optical component to set a center wavelength of the laser light at a target wavelength, and controlling subsequent driving of the piezoelectric element unit to return to a neutral position,

wherein during the return of the piezoelectric element unit to the neutral position, the laser controller further controls driving of the pulse motor unit to compensate for a positional change of the optical component caused by the return of the piezoelectric element unit to the neutral position to maintain the center wavelength at the target wavelength.

Claim 11 (Currently Amended): A wavelength control device for a laser device, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, ~~capable of~~ for moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller for controlling, during oscillation stoppage of the laser light, driving of the pulse motor unit to move the optical component to a position that would set a center wavelength of the laser light close to a target wavelength, and after oscillation of the laser light resumes, controlling subsequent driving of the piezoelectric element unit to set the center wavelength of the laser light at the target wavelength.

Claim 12 (Currently Amended): A wavelength control device for a laser device, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, ~~capable of~~ for moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller for controlling during oscillation stoppage of the laser light, driving of the pulse motor unit to move the optical component to a position that would set a center

wavelength of the laser light close to a target wavelength, and after oscillation of the laser light resumes, controlling subsequent driving of the piezoelectric element unit to set the center wavelength of the laser light at the target wavelength and then to return to a neutral position,

wherein during the return of the piezoelectric element unit to the neutral position, the laser controller further controls driving of the pulse motor unit to compensate for a positional change of the optical component caused by the return of the piezoelectric element unit to the neutral position to maintain the center wavelength at the target wavelength.

Claim 13 (New): A wavelength control method for a laser device, for controlling so that an oscillation center wavelength of the laser device becomes a target center wavelength, based on a center wavelength detected by a wavelength monitor, the method comprising:

first driving a piezoelectric element unit to set the oscillation center wavelength to the target center wavelength; and

subsequently driving either the piezoelectric element unit or a pulse motor unit to maintain the oscillation center wavelength at the target center wavelength.

Claim 14 (New): A wavelength control method for a laser device, for controlling so that an oscillation center wavelength of the laser device becomes a target center wavelength, based on a center wavelength detected by a wavelength monitor, the method comprising:

first driving a piezoelectric element unit to set the oscillation center wavelength to the target center wavelength; and

subsequently returning the piezoelectric element unit to a neutral position and, at the same time, compensating for a positional change of an optical component caused by the return of

the piezoelectric element unit to the neutral position to maintain the oscillation center wavelength at the target center wavelength.

Claim 15 (New): A wavelength control method for a laser device, for controlling so that an oscillation center wavelength of the laser device becomes a target center wavelength, based on a center wavelength detected by a wavelength monitor, the method comprising:

during oscillation stoppage, driving in advance a pulse motor unit to move an optical component to a position roughly corresponding to the target center wavelength based on a target wavelength after re-oscillation; and

after re-oscillation, driving a piezoelectric element unit to set the oscillation center wavelength to the target center wavelength based on the detection result of the wavelength monitor.

Claim 16 (New): A wavelength control method for a laser device, for controlling so that an oscillation center wavelength of the laser device becomes a target center wavelength, based on a center wavelength detected by a wavelength monitor, the method comprising:

during oscillation stoppage, driving in advance a pulse motor unit to move an optical component to a position roughly corresponding to the target center wavelength based on a target wavelength after re-oscillation;

after re-oscillation, first driving a piezoelectric element unit to set the oscillation center wavelength to the target center wavelength based on the detection result of the wavelength monitor; and

subsequently returning the piezoelectric element unit to a neutral position and, at the same time, compensating for a positional change of the optical component caused by the return of the piezoelectric element unit to the neutral position to maintain the oscillation center wavelength at the target center wavelength.

Claim 17 (New): A wavelength control device for a laser device, used for realizing the method as claimed in claim 13, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, capable of moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller which controls driving of the piezoelectric element unit to move the optical component to set a center wavelength of the laser light at a target wavelength, and which controls subsequent driving of the piezoelectric element unit or the pulse motor unit to maintain the center wavelength at the target wavelength.

Claim 18 (New): A wavelength control device for a laser device; used for realizing the method as claimed in claim 14, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, capable of moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller which controls driving of the piezoelectric element unit to move the optical component to set a center wavelength of the laser light at a target wavelength and controls subsequent driving of the piezoelectric element unit to return to a neutral position,

wherein during the return of the piezoelectric element unit to the neutral position, the laser controller further controls driving of the pulse motor unit to compensate for a positional change of the optical component caused by the return of the piezoelectric element unit to the neutral position to maintain the center wavelength at the target wavelength.

Claim 19 (Currently Amended): A wavelength control device for a laser device, used for realizing the method as claimed in claim 15, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, capable of moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller which controls during oscillation stoppage of the laser light, driving of the pulse motor unit to move the optical component to a position that would set a center wavelength of the laser light close to a target wavelength, and after oscillation of the laser light resumes, controls subsequent driving of the piezoelectric element unit to set the center wavelength of the laser light at the target wavelength.

Claim 20 (Currently Amended): A wavelength control device for a laser device, used for realizing the method as claimed in claim 15, comprising:

a movable holder, including a piezoelectric element unit and a pulse motor unit, capable of moving an optical component with respect to a laser optical axis to change an incident angle of laser light on a band narrowing optical component; and

a laser controller which controls during oscillation stoppage of the laser light, driving of the pulse motor unit to move the optical component to a position that would set a center

wavelength of the laser light close to a target wavelength, and after oscillation of the laser light resumes, controls subsequent driving of the piezoelectric element unit to set the center wavelength of the laser light at the target wavelength and then to a neutral position,

wherein during the return of the piezoelectric element unit to the neutral position, the laser controller further controls driving of the pulse motor unit to compensate for a positional change of the optical component caused by the return of the piezoelectric element unit to the neutral position to maintain the center wavelength at the target wavelength.